



RESEARCH, DEVELOPMENT and TECHNOLOGY TRANSFER QUARTERLY PROGRESS REPORT (QPR)

Wisconsin Department of Transportation (WisDOT)
DT1241 5/2014

INSTRUCTIONS:

Research principal investigators and/or project managers should complete a quarterly progress report (QPR) for each calendar quarter during which the projects are active.

WisDOT Research Program Category <input type="checkbox"/> Policy Research <input checked="" type="checkbox"/> Wisconsin Highway Research Program <input type="checkbox"/> Other: _____		Report Period (enter year and check which quarter) Year: <u>2014</u> <input type="checkbox"/> Quarter 1 (Jan 1 – Mar 31) <input type="checkbox"/> Quarter 3 (Jul 1 – Sep 30) <input checked="" type="checkbox"/> Quarter 2 (Apr 1 – Jun 30) <input type="checkbox"/> Quarter 4 (Oct 1 – Dec 31)	
Project Title Performance of Pile Supported Sign Structures		WisDOT Project ID 0092-14-02	
Principal Investigator Name Andrew Boeckmann	Project Oversight Committee Chair Name Jeff Horsfall	Project Start Date (m/d/yyyy) 8/8/2013	
(Area Code) Telephone Number 573-882-6084	(Area Code) Telephone Number 608-243-5993	Original End Date (m/d/yyyy) 2/7/2015	
Email Address boeckmanna@missouri.edu	Email Address Jeffrey.Horsfall@dot.wi.gov	Current End Date (m/d/yyyy) 2/7/2015	

Project Schedule Status (check one)

☒ On Schedule ☐ On Revised Schedule ☐ Ahead of Schedule ☐ Behind Schedule

Project Budget Status

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
\$99,999.00	\$18,071.00	\$44,748.00	45%	60%

*Total expenditures as of early June. Currently processing invoice from subcontractor for construction costs, which will bring the percent expended closer to 100.

Project Description

Perform a field load test and numerical modeling of two pile groups to investigate load transfer for sign foundations.

Progress This Quarter (includes meetings, work plan status, contract status, significant progress, etc.)

The research team completed Task 2, Field Research, in this quarter. The team finalized construction plans for the project, coordinated with the contractor to schedule the construction, and provided field oversight for the construction, which was completed June 2 through June 6, 2014. The research team also applied all instrumentation, built and/or acquired data acquisition systems for the various instrumentation, and acquired hydraulic system to apply loads during the field load test. Various other preparations were also completed in advance of the load test. The load test was conducted successfully June 18, 2014. The team ensured all data acquisition was completed successfully before disassembling and returning the load test equipment.

Anticipated Work Next Quarter

Work in the upcoming quarter will focus on analyzing data collected during the field research of the previous quarter (i.e. work will focus on Task 3). The research team collected a large amount of data from a variety of instruments during the load test. The research team will reduce and analyze these data and then use the results for interpretation and calibration of numerical models in the upcoming quarter. The model calibrations will be used to develop design recommendations to be implemented in the final report.

Circumstances Affecting Project or Budget

Currently, work on the project is underway and is being performed consistent with the research plan and project budget.

Attach / Insert Gantt Chart and Other Project Documentation

The Gantt chart from the research plan is included below. Currently the research team is working on Task 3 after completing the field research of Task 2 in the second quarter of 2014. The project is on schedule, consistent with the Gantt chart.

Task	Project Month																	
	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1. Literature Review																		
2. Field Research																		
3. Data Analysis																		
4. Final Report																		
Draft Final Report Submitted October 31, 2014																		
WisDOT Review																		
Report Revisions & Final Submittal																		
Final Final Report Submitted January 31, 2015																		

(*enter text)

For WisDOT Use Only	
Staff Receiving QPR J. Walejko	Date Received (m/d/yyyy) 6/25/2014
Staff Approving QPR	Date Approved (m/d/yyyy)